

LISTING OF THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) ~~Construction~~ A construction material on a plant basis (PB), containing a mixture M1 of a binder and a mineralizer, ~~characterized in that wherein~~ the weight proportions of the components constituting the mixture M1 ~~are comprised~~ comprise between ~~approx:~~ approximately 50 % and ~~approx:~~ approximately 90 % ~~for of~~ the binder and between ~~approx:~~ approximately 10 % and ~~approx:~~ approximately 50 % ~~for of~~ the mineralizer, and ~~in that~~ the latter mineralizer is ~~composed~~ comprised of a mixture M2 of calcium carbonate CaCO_3 and magnesium carbonate MgCO_3 , the weight proportions of the components constituting ~~this the~~ mixture M2 ~~being comprised~~ comprise between ~~approx:~~ approximately 60 % and ~~approx:~~ approximately 95 % ~~for of~~ the CaCO_3 and between ~~approx:~~ approximately 5 % and ~~approx:~~ approximately 40 % ~~for of~~ the MgCO_3 .

2. (Currently Amended) ~~Construction~~ The construction material according to claim 1, ~~characterized in that wherein~~ the weight proportions of the components constituting the mixture M1 ~~are preferably comprised~~ comprise between $\frac{6}{10}$ and $\frac{4}{5}$ ~~for of~~ the binder and between $\frac{1}{5}$ and $\frac{4}{10}$ ~~for of~~ the mineralizer.

3. (Currently Amended) ~~Construction~~ The construction material according to claim 1 ~~or 2~~, ~~characterized in that wherein~~ the weight proportions of the components constituting the mixture M2 ~~are preferably comprised~~ comprise between $\frac{2}{3}$ and $\frac{9}{10}$ ~~for of~~ the CaCO_3 and between $\frac{1}{10}$ and $\frac{1}{3}$ ~~for of~~ the MgCO_3 .

4. (Currently Amended) Construction material according to ~~any one of claims 1 to 4~~, ~~characterized in that~~ claim 1, wherein for 1 m^3 of PB, the mixture M1 is ~~composed~~ comprised of 75 kg of mineralizer M2 and of 225 kg of binder in weight proportion of ~~(weight proportions 25 % to~~

75 %~~[[()]]~~, and the mixture M2 of 60 kg of calcium carbonate and of 15 kg of magnesium carbonate ~~[[()]]~~ in weight proportions 80 % to 20 %~~[[()]]~~.

5. (Currently Amended) ~~The construction~~ Construction material according to ~~any one of claims 1 to 3, characterized in that it contains~~ claim 1, further comprising an additional mixture M3 provided in defined application-oriented ~~resp. [[-]]~~ dependent proportions.

6. (Currently Amended) ~~The construction~~ Construction material according to claim 5, ~~characterized in that wherein~~ the mixture M3 ~~consists of~~ comprises gypsum~~[[,]]~~ preferably with starch added.

7. (Currently Amended) ~~The construction~~ Construction material according to claim 5, ~~characterized in that wherein~~ the mixture M3 ~~consists of~~ comprises a flow agent.

8. (Currently Amended) ~~Construction~~ The construction material according to claim 5 ~~or 6, characterized in that wherein~~ for 1 m³ of PB, the mixture M1 is ~~composed~~ comprised of 60 kg of mineralizer according to M2 and of 100 kg of binder ~~[[()]]~~ in weight proportions 37.50 % to 62.50 %~~[[()]]~~, and the mixture M2 of 42 kg of calcium carbonate and of 18 kg of magnesium carbonate ~~[[()]]~~ in weight proportions 70 % to 30 %~~[[()]]~~, and the mixture M3 ~~preferably consists of~~ comprises 200 kg of gypsum.

9. (Currently Amended) ~~The construction~~ Construction material according to ~~any one of claims 1 to 8, characterized in that claim 1, wherein~~ the plant basis PB is ~~advantageously composed of~~ comprises materials comprising miscanthus (China reed), hemp, softwood, sugar cane, straw, switchgrass or ~~[[()]]~~panicum virgatum~~[[()]]~~, italian ryegrass, reed, the materials being present individually or in different combinations, ~~these vegetable raw~~ wherein the materials being are comminuted ~~according to predetermined specifications.~~

10. (Currently Amended) ~~The construction~~ Construction material according to claim 9, ~~characterized in that wherein the comminution produces comminuted particles are~~ elongate particles ~~such as comprising at least one of fibers of~~ up to approx. 40 mm ~~and/or and~~ a granulate of a grain size up to 8 mm.

11. (Currently Amended) ~~Construction~~ The construction material according to claim 9, ~~wherein or 10, characterized in that~~ the plant basis PB comprises a mixture of miscanthus and softwood, ~~preferably~~ with respective volumetric contents of 85 % and 15 %.

12. (Currently Amended) ~~The construction~~ Construction material according to claim 9 or 10, ~~characterized in that wherein~~ the plant basis PB comprises a mixture of miscanthus, softwood, and hemp, ~~preferably~~ with respective volumetric contents of ~~[[85]]~~ 75 %, ~~[[15]]~~ 20 %, and 5 %.

13. (Currently Amended) ~~The construction~~ Construction material according to ~~any one of claims 1 to 12, characterized in that claim 1, wherein~~ the mixture of ~~[[{}]]~~ PB + M1~~[[{}]]~~ resp. {PB + M1 + M3} is mixed with such a quantity of mixing water that ~~a predefined, intended to produce a consistency K₁ is obtained.~~

14. (Currently Amended) ~~Construction~~ The construction material according to claim 13, ~~characterized in that wherein~~ for 1 m³ of PB, the quantity of mixing water is ~~equal to approx.~~ approximately 300 liters.

15. (Currently Amended) ~~The construction~~ Construction material according to claim 13 or 14, ~~characterized in that~~ further comprising a fungicidal preparation is admixed ~~to said~~ with the mixing water, ~~preferably by the~~ addition of approx. 2/3 liters of sodium hydroxide for 1,000 liters of mixing water.

16. (Currently Amended) ~~Construction~~ The construction material according to any one of claims 1 to 15, characterized in that claim 1, wherein the binder is preferably Portland cement of strength class 52.5.

17. (Currently Amended) ~~Method~~ A method for producing a construction material wherein the construction material comprises according to any one of claims 1 to 16, characterized in that a plant basis (PB), containing a mixture M1 of a binder and a mineralizer, wherein the weight proportions of the components constituting the mixture M1 comprise between approximately 50 % and approximately 90 % of the binder and between approximately 10 % and approximately 50 % of the mineralizer, and the mineralizer is comprised of a mixture M2 of calcium carbonate CaCO_3 and magnesium carbonate MgCO_3 , the weight proportions of the components constituting the mixture M2 comprise between approximately 60 % and approximately 95 % of the CaCO_3 and between approximately 5 % and approximately 40 % of the MgCO_3 and an additional mixture M3 provided in defined application-oriented dependent proportions;

the method comprising:

~~= the mixture M1 consisting of the binder and the mineralizer is prepared in defined application-oriented resp. - dependent proportions;~~

~~[[-]] preparing the mixture M3 composed~~ M2 comprised of calcium carbonate CaCO_3 and magnesium carbonate MgCO_3 ~~is prepared in defined application-oriented resp. [[-]] dependent proportions,~~

~~[[-]] as the case may be, preparing the mixture M3 further comprising consisting of at least one additional material is prepared in defined application-oriented resp. [[-]] dependent proportions and admixed to~~ with the mixture M2, and ~~in that~~

~~preparing the mixture M1 of the binder and the mineralizer in defined application-oriented dependent proportions,~~

~~[[-]] mixing the mixture {PB + M1} resp. [[{}]] PB + M1 + M3 [[{}]] is mixed into a quantity of mixing water that is defined according to the a desired consistency K_i .~~

18. (Currently Amended) ~~Method~~ The method for producing a construction material according claim 7, ~~characterized in that~~ wherein

~~= the mixture M1 composed of the binder and the mineralizer is prepared according to defined application-oriented resp. -dependent proportions,~~

[[-]] the mixture ~~M3 composed~~ M2 comprised of calcium carbonate CaCO₃ and magnesium carbonate MgCO₃ is prepared according to defined application-oriented ~~resp.~~ [[-]]dependent proportions,

[[-]] the mixture M3 ~~consisting of~~ comprising at least one additional material is prepared in defined application-oriented ~~resp.~~ [[-]]dependent proportions and admixed to with the mixture M2, and in that

~~- the mixture M1 is comprised of the binder and the mineralizer prepared according to defined application-oriented dependent proportions,~~

[[-]] the mixture [[{}]]PB + M1 + M3[[{}]] is extruded.

19. (Currently Amended) ~~The method~~ The method according to claim 17, ~~wherein or 18,~~ ~~characterized in that~~ the preparation of the mixture {PB + M1} ~~resp.~~ [[{}]]PB + M1 + [[M2]] M3 [[{}]] takes place in a single process step, and the mineralizer ~~being~~ and the mixture M3 are previously admixed to with the binder directly in the binder plant according to determined specifications.

20. (Currently Amended) ~~Structural~~ A structural element or object ~~made~~ comprised of a construction material according to ~~any one of claims 1 to 16~~ claim 1.

21. (Currently Amended) ~~Structural~~ The structural element according to claim 20, ~~characterized in that it forms~~ in the form of a sound-insulating element (1) and is being provided with sound-insulating fins (2) for increasing ~~the~~ a sound-absorbing surface area thereof.

22. (Currently Amended) ~~A sound-insulating~~ Sound-insulating structural element according to claim 21, ~~characterized in that it is in the form of a panel.~~

23. (Currently Amended) ~~Sound-insulating~~ A sound-insulating structural element according to claim 21, ~~wherein being or 22, characterized in that it is built up of two layers, including a supporting layer (3) with having a preponderantly static function being provided with and an absorber layer (4) for sound absorption.~~

24. (Currently Amended) ~~Sound-insulating~~ A sound-insulating structural element according to claim 23, ~~characterized in that it has having a thickness (h) of approx: approximately 25 cm, the supporting layer (3) with having a density of approx: approximately 1250 kg/m³ and having a thickness (g) of approx: approximately 10 cm, and the absorber layer (4) with having a density of approx: approximately 500 kg/m³ and being built up of fins, the fins having bases and heads, the fins (2) having a height (e) of approx: approximately 10 cm, a width (d) of approx: approximately 10 cm at the fin bases base, a width (a) of approx: approximately 6 cm at the a fin head and a distance (c) between the fins of approx: approximately 3 cm at the fin bases base, and of a layer beneath the fins of a thickness (f) of approx: approximately 5 cm, and in that the total weight of the structural element (1), related to the projected surface area, is approx. 205 kg/m².~~

25. (Currently Amended) ~~Structural~~ The structural element according to claim 20, ~~characterized in that it forms comprising a cuboidal slope reinforcement block (5), in that a tenon (8) and a groove (9) are provided for the form-fitting juxtaposition of several slope reinforcement blocks (5), and in that furthermore a recess (7) is provided on the a side facing the soil and capable of being filled up by earth (12).~~

26. (Currently Amended) The structural element Slope-reinforcement block according to claim 25, ~~characterized in that wherein the slope reinforcement block further comprises~~

sound-absorbing fins (2) ~~are~~ provided on the side of the slope reinforcement block (6) opposite the soil (12).

27. (Currently Amended) A slope ~~Slope~~ reinforcement wall ~~composed~~ comprised of a plurality of the structural elements in the form of the slope reinforcement blocks according to claim 25, wherein ~~or 26, characterized in that~~ several of the slope reinforcement blocks (5, 6) arranged to form a slope reinforcement wall (10) by form-fitting interconnection thereof, and ~~in that~~ the latter wall is inclined in the direction of the slope of the blocks by the an angle $[[\alpha]]$ with respect to the perpendicular, and ~~in that~~ a foundation (11) for absorbing the vertical forces, and ~~as well as~~ geo fleece mats (13) and tension bands (14) for absorbing the horizontal forces from the slope reinforcement wall (10) ~~are provided~~.

28. (Currently Amended) The slope ~~Slope~~ reinforcement wall according to claim 27, ~~characterized in that~~ wherein the angle $[[\alpha]]$ is 10° .

29. (Currently Amended) The structural ~~Structural~~ element according to claim 20, ~~characterized in that it~~ which is pressed to form a perforated building brick.

30. (Currently Amended) The structural ~~Structural~~ element according to claim 20, ~~characterized in that~~ further comprising hemp ropes of a diameter of approx. 12 mm ~~are~~ arranged at intervals of approx. 10 cm, ~~in that~~ hemp ropes of a diameter of approx. 8 mm ~~are~~ provided at intervals of approx. 30 cm, and ~~in that~~ the structural elements have a length of approx. 3.5 m and are applicable as ceiling elements.

31. (Currently Amended) The structural ~~Structural~~ element according to claim 20, ~~characterized in that~~ further comprising a timber framing ~~is provided which fulfills the~~ for fulfilling a static function of the structural element, and ~~in that~~ the plant-based construction material fills up the timber framing two-dimensionally and ~~fulfills~~ performs a thermal insulation and noise protection function.